

The background is a light cream color, decorated with various stylized, watercolor-like illustrations of fruits and leaves. In the top left, there's a green leaf with yellow spiral patterns. Below it, a yellow fruit with red oval seeds is partially visible. To the right, a large orange fruit with yellow seeds is shown. At the bottom, there are more green leaves and a red fruit. The overall style is soft and artistic.

# 01

## 開發環境與驅動程式安裝

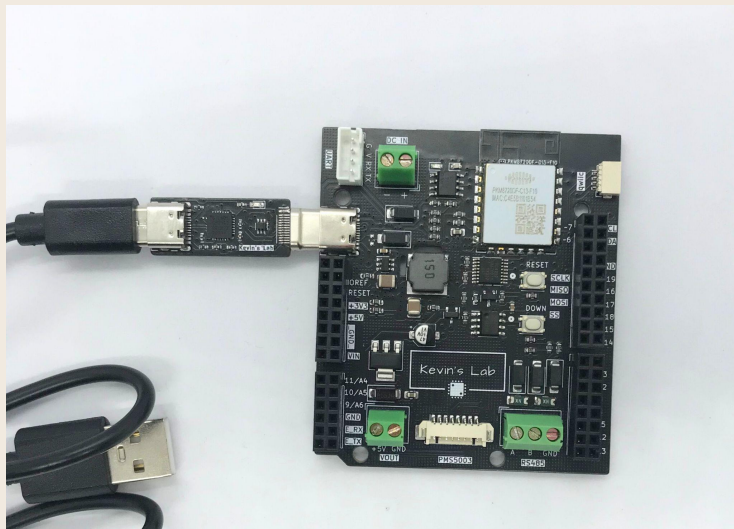
# 開發環境與驅動程式安裝

上傳工具



# 開發環境與驅動程式安裝

上傳工具

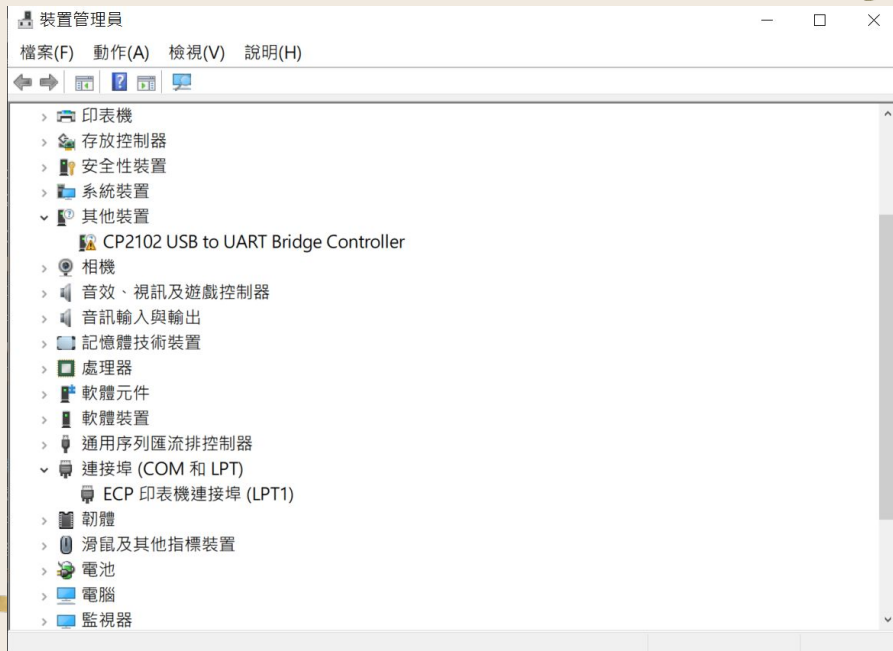


# 開發環境與驅動程式安裝

將USB 上傳工具接入 Type-C 及電腦

如果在 裝置管理員 出現 驚嘆號,

表示需要安裝驅動程式



# 開發環境與驅動程式安裝

## 驅動程式安裝

開啟網頁:

<https://www.silabs.com/developers/usb-to-uart-bridge-vcp-drivers?tab=downloads>



# 開發環境與驅動程式安裝

## 驅動程式安裝

Windows 選擇

CP210x Windows Drivers

Mac 選擇

CP210x VCP MAC OSX Driver

### Software Downloads

[Software](#) (10)

Software · 10

|   |                                 |
|---|---------------------------------|
| <a href="#">CP210x Universal Windows Driver</a>               | v11.3.0<br>6/24/2023            |
| <a href="#">CP210x VCP Mac OSX Driver</a>                     | v6.0.2<br>10/27/2021            |
| <a href="#">CP210x Windows Drivers</a>                        | v6.7.6<br>9/4/2020              |
| <a href="#">CP210x Windows Drivers with Serial Enumerator</a> | v6.7.6<br>9/4/2020              |
| <a href="#">CP210x_5x_AppNote_Archive</a>                     | 9/4/2020                        |
| <a href="#">CP210x_VCP_Win2K</a>                              | 9/4/2020                        |
| <a href="#">Linux 2.6.x VCP Revision History</a>              | 9/4/2020                        |
| <a href="#">Linux 3.x.x/4.x.x/5.x.x VCP Driver</a>            | v3.x.x/4.x.x/5.x.x<br>1/29/2021 |
| <a href="#">VCP Driver for WinCE60</a>                        | v2.1<br>9/4/2020                |
| <a href="#">VCP Drivers for WinCE50</a>                       | v2.1<br>9/4/2020                |

# 開發環境與驅動程式安裝

下載後，並解壓縮。找到

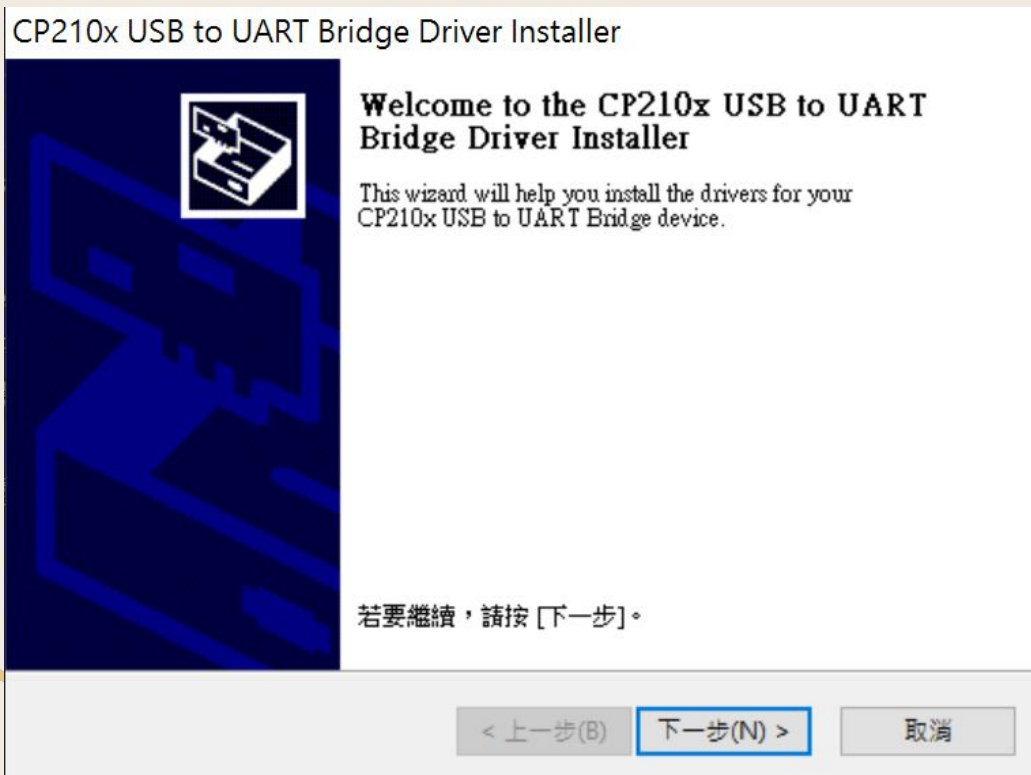
CP210xVCPInstaller\_x64.exe

並執行它



# 開發環境與驅動程式安裝

按下一步繼續，  
按指示安裝。





# 開發環境與驅動程式安裝

安裝 Arduino IDE

下載點

[arduino.cc/en/software](https://arduino.cc/en/software)



## Arduino IDE 2.1.0

The new major release of the Arduino IDE is faster and even more powerful! In addition to a more modern editor and a more responsive interface it features autocompletion, code navigation, and even a live debugger.

For more details, please refer to the [Arduino IDE 2.0 documentation](#).

Nightly builds with the latest bugfixes are available through the section below.

### DOWNLOAD OPTIONS

**Windows** Win 10 and newer, 64 bits

**Windows** MSI installer

**Windows** ZIP file

**Linux** AppImage 64 bits (X86-64)

**Linux** ZIP file 64 bits (X86-64)

**macOS** Intel, 10.14: "Mojave" or newer, 64 bits

**macOS** Apple Silicon, 11: "Big Sur" or newer, 64 bits

[Release Notes](#)

# 開發環境與驅動程式安裝

Arduino 設定

複製以下連結

[https://github.com/ambiot/ambd\\_arduino/raw/master/Arduino\\_package/package\\_realtek\\_amebad\\_index.json](https://github.com/ambiot/ambd_arduino/raw/master/Arduino_package/package_realtek_amebad_index.json)

開啟 File / preferences

在 Additional boards manager URLs 的欄位 貼上 上述網址, 點 OK 結束設定

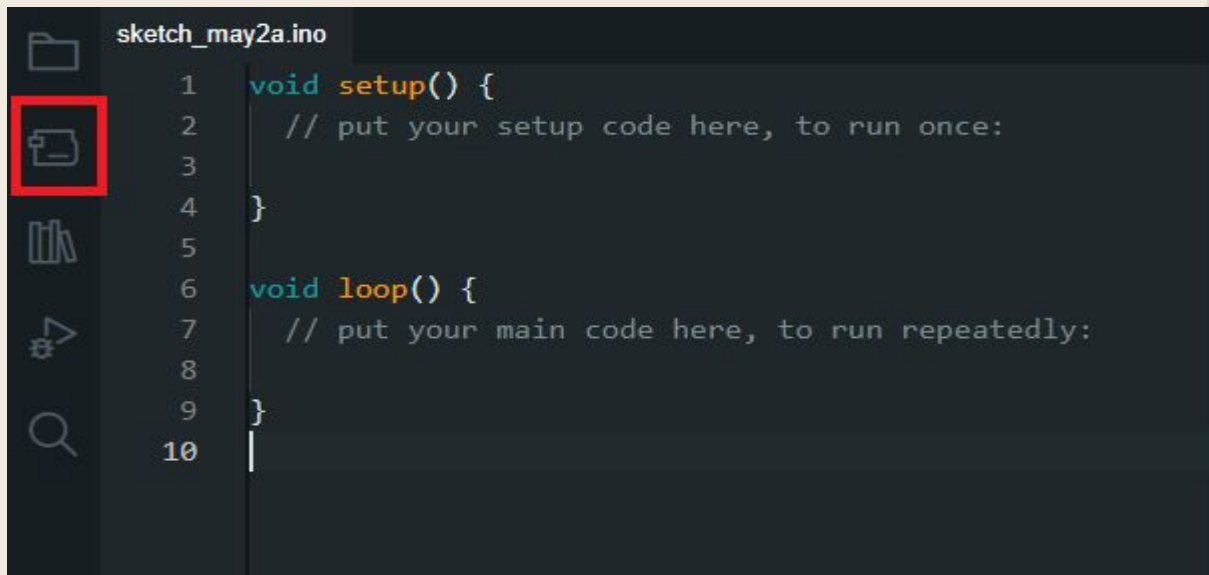
Additional boards manager URLs: |



# 開發環境與驅動程式安裝

- Arduino 設定

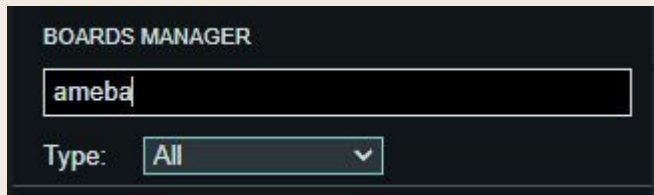
點取左側 第二個圖示， Boards Manager



# 開發環境與驅動程式安裝

- Arduino 設定

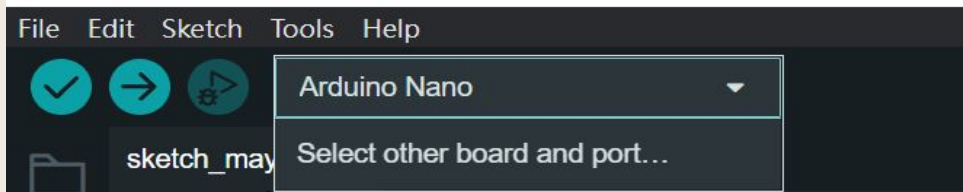
輸入 ameba



# 開發環境與驅動程式安裝

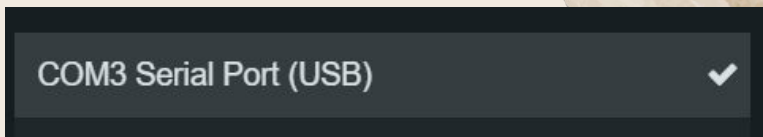
- Arduino 設定

透過 USB 連接 開發板



選擇 Select other board and port

Board 選擇 Datalogger Series(RTL8720DF)

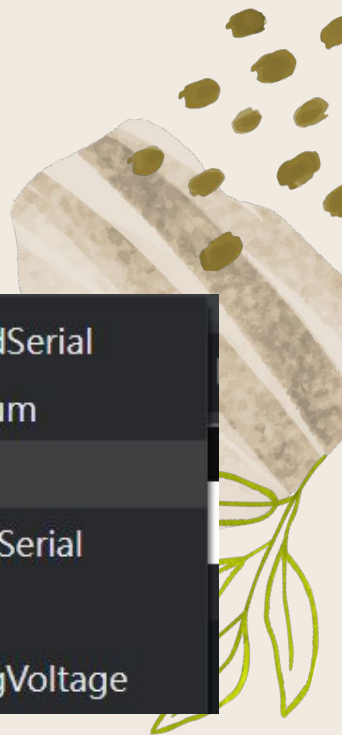
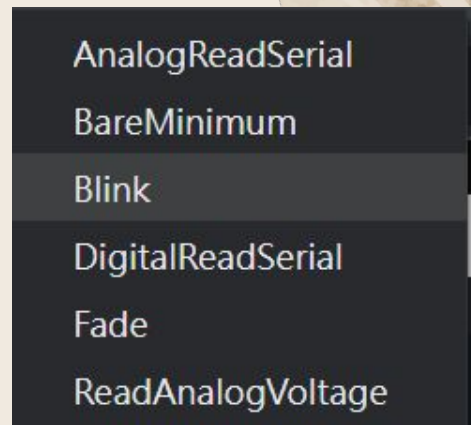
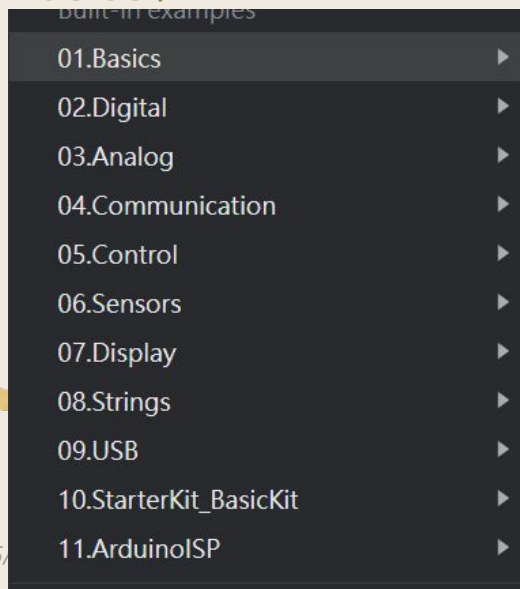
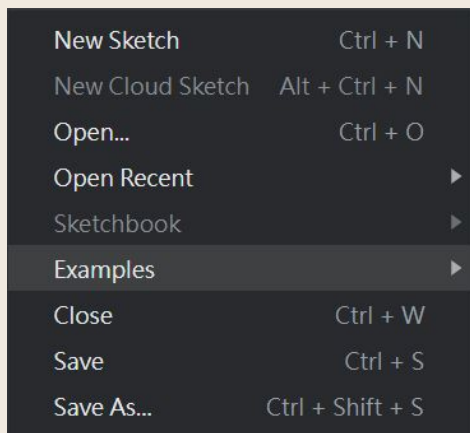


# 開發環境與驅動程式安裝

- Arduino 設定

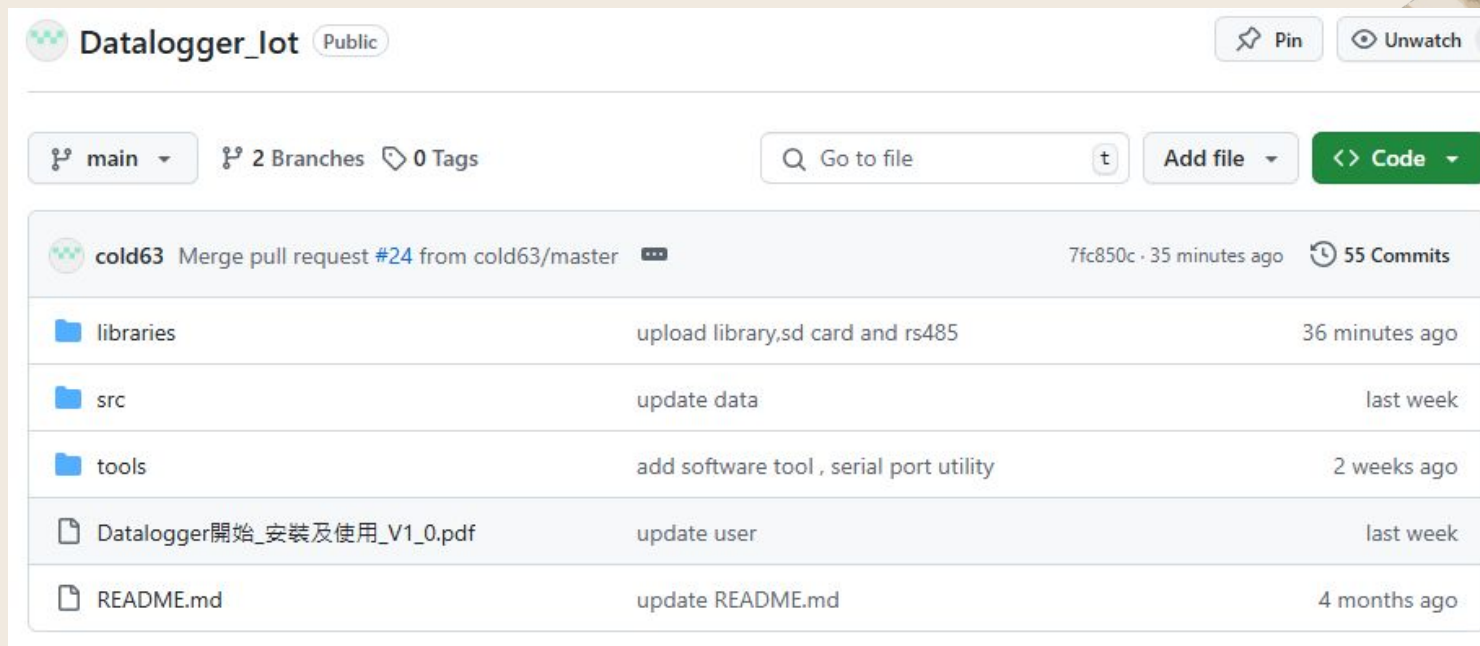
## 第一個程式

打開 File / Examples / 01.Basics / Blink



# 開發環境與驅動程式安裝

- 範例程式及資料 (操作手冊及程式庫)
  - [https://github.com/cold63/Datalogger\\_lot/tree/main](https://github.com/cold63/Datalogger_lot/tree/main)



**Datalogger\_lot** Public

main 2 Branches 0 Tags

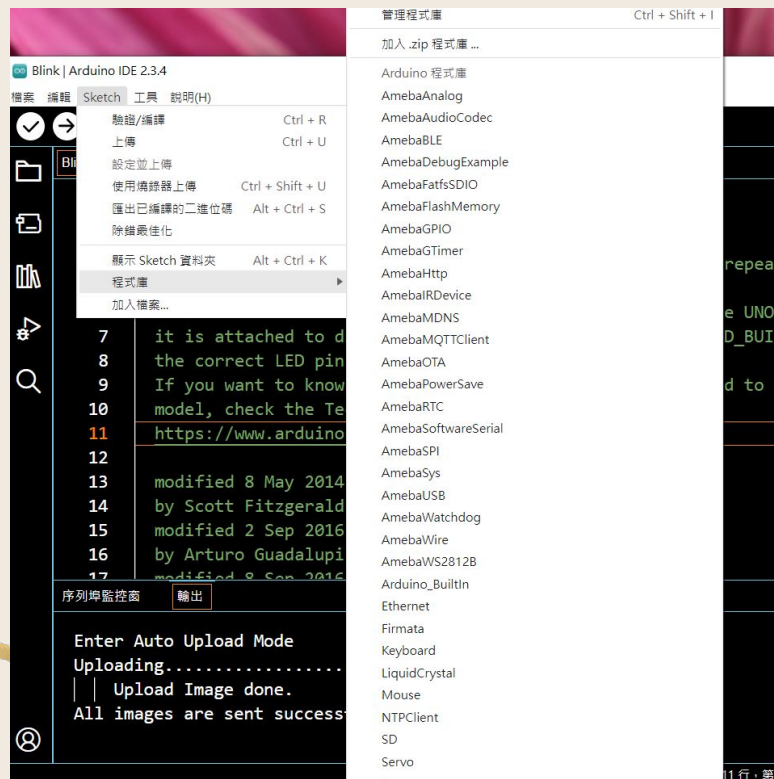
Go to file t Add file >> Code

**cold63** Merge pull request #24 from cold63/master 7fc850c · 35 minutes ago 55 Commits

|                             |   |                |
|-----------------------------|---|----------------|
| libraries                   | upload library, sd card and rs485       | 36 minutes ago |
| src                         | update data                             | last week      |
| tools                       | add software tool , serial port utility | 2 weeks ago    |
| Datalogger開始_安裝及使用_V1_0.pdf | update user                             | last week      |
| README.md                   | update README.md                        | 4 months ago   |

# 開發環境與驅動程式安裝

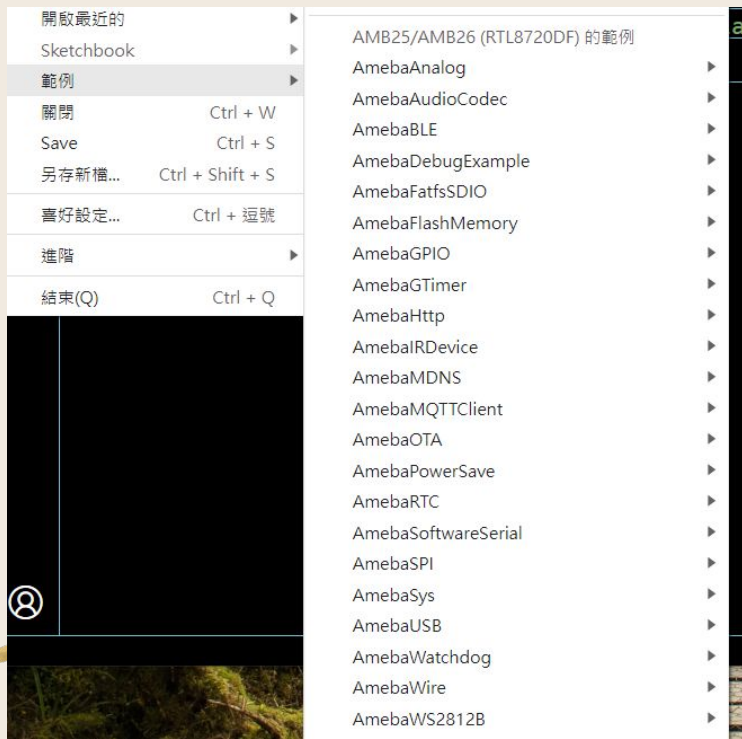
- 安裝 Zip 程式庫的方法





# 開發環境與驅動程式安裝

Realtek 提供的 Arduino 範例



# 開發環境與驅動程式安裝

## 常用程式庫安裝

- RS-485
  - ModbusMaster by Doc Walker (Arduino IDE 安裝)
  - Modbus-Master-Slave-for-Arduino (下載安裝)
- SD Card
  - SdFat (下載安裝)
- Oled
  - u8g2 (Arduino IDE 安裝)

